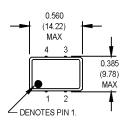
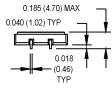
M8R Series 9x16 mm, 3.3 Volt, HCMOS/TTL, Clock Oscillator





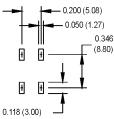
These are non-PLL based high frequency oscillators intended for applications that require low phase jitter. For frequencies 80.000 MHz and below, please see the M8S series.







SUGGESTED SOLDER PAD LAYOUT

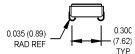


Pin Connections

PIN	FUNCTION			
1	N/C or Tri-state			
2	Ground			
3	Output			
4	+Vdd			



All dimensions



A SHORE	

Ordering Information 00.0000 M8R Α -R MHz 3 F J Product Series Temperature Range 1: 0°C to +70°C 2: -40°C to +85°C 6: -20°C to +70°C 5: -10°C to +85°C 7: 0°C to +85°C Stability 1: ±1000 ppm 2: ±500 ppm 3: ±100 ppm 4: ±50 ppm 5: ±35 ppm 6: ±25 ppm *8: ±20 ppm Output Type F: Fixed T: Tristate Symmetry/Logic Compatibility A: 40/60 CMOS/TTL C: 45/55 CMOS Package/Lead Configurations J: J Lead (Gold Flash Leads) **RoHS** Compliance Blank: non-RoHS compliant part RoHS compliant part -R: Frequency (customer specified)

*Consult Factory for availability

Electrical Specifications	PARAMETER	Symbol	Min.	Тур.	Max.	Units	Condition		
	Frequency Range	F	80.001		125	MHz			
	Frequency Stability	Δ F/F	(See Ordering Information)						
	Operating Temperature	ΤΑ	(See Ordering Information)						
	Storage Temperature	Ts	-55		+125	ç			
	Input Voltage	Vdd	3.15	3.3	3.45	V			
	Input Current	ldd			50	mA			
	Symmetry (Duty Cycle)		(See Ordering Information)				See Note 1		
	Load		2 TTL or 15 pF				See Note 2		
	Rise/Fall Time	Tr/Tf			4	ns	See Note 3		
	Logic "1" Level	Voh	90% Vdd			V	HCMOS load		
			Vdd -0.5			V	TTL load		
	Logic "0" Level	Vol			10% Vdd	V	HCMOS load		
					0.5	V	TTL load		
	Cycle to Cycle Jitter			5	20	ps RMS	1 Sigma		
	Tri-state Function		Pin 1 logic	"1" or flo					
			Pin 1 logic "0"; output disables to high-Z						
al	Mechanical Shock	Per MIL-STD-202, Method 213, Condition C							
ent	Vibration	Per MIL-STD-202, Method 201 & 204							
Environmental	Reflow Solder Conditions	240°C for 10 s max.							
	Hermeticity	Per MIL-STD-202, Method 112 (1 x 10 ^s atm.cc/s of helium)							
E	Solderability	Per EIAJ-STD-002							

1. Symmetry is measured at 1.4 V with TTL load, and at 50% Vdd with HCMOS load.

2. TTL load - see load circuit diagram #1. HCMOS load - see load circuit diagram #2.

3. Rise/Fall times are measured between 0.5 V and 2.4 V with TTL load, and between 10% Vdd and 90% Vdd with HCMOS load

MtronPTI reserves the right to make changes to the product(s) and service(s) described herein without notice. No liability is assumed as a result of their use or application.

Please see www.mtronpti.com for our complete offering and detailed datasheets. Contact us for your application specific requirements: MtronPTI 1-800-762-8800.